

AA 747-06 Harbor Drive Sewage
Site Plan Pumping Station

MSA_5_1829-5526

Comments 11/15/07-428

Robert L. Ehrlich, Jr.
Governor



Martin G. Madden
Chairman

Michael S. Steele
Lt. Governor

Ren Serey
Executive Director

**STATE OF MARYLAND
CRITICAL AREA COMMISSION
CHESAPEAKE AND ATLANTIC COASTAL BAYS**

1804 West Street, Suite 100, Annapolis, Maryland 21401
(410) 260-3460 Fax: (410) 974-5338
www.dnr.state.md.us/criticalarea/

January 5, 2007

Ms. Elinor Gawel
Anne Arundel County
Office of Environmental and Cultural Resources
2664 Riva Road
Annapolis, Maryland 21401

Re: Harbor Drive Pumping Station Project

Dear Ms. ^{Elinor}~~Gawel~~:

The purpose of this letter is to officially notify you of the Critical Area Commission's action on the above referenced project. On January 3, 2007, the Critical Area Commission unanimously approved the County's proposal to construct multiple improvements to the existing pumping station. The project was approved with the following condition:

1. Prior to commencement of construction, Anne Arundel County shall provide a planting plan to Commission staff and, if necessary, to the Project Subcommittee, which demonstrates compliance with the required 1,320 square feet of mitigation.

In fulfillment of the above condition, please provide Commission staff with a copy of the proposed mitigation planting plan as soon as it is available. Please note that should any changes to the site plan be proposed in the future, additional review and approval by the full Commission will be required. Should you have any questions, please feel free to contact me at 410-260-3482.

Sincerely,

A handwritten signature in cursive script, appearing to read "Kerrie Gallo".

Kerrie L. Gallo
Natural Resource Planner

Enclosure

Critical Area Commission

STAFF REPORT

January 3, 2007

APPLICANT: Anne Arundel County
Department of Public Works

PROPOSAL: Harbor Drive Pumping Station Improvements

JURISDICTION: Anne Arundel

COMMISSION ACTION: Vote

**STAFF
RECOMMENDATION:** Conditional Approval with condition

STAFF: Kerrie Gallo

**APPLICABLE LAW/
REGULATIONS:** COMAR 27.02.06 Conditional Approval of State or
Local Agency Programs in the Critical Area

DISCUSSION:

The Anne Arundel County Department of Public Works proposes to conduct multiple improvements to an existing wastewater pumping station. The development proposal includes replacing existing pumps with new pumps, providing an emergency bypass valve vault, extending public water to the pump station, replacing existing electrical control panels, and miscellaneous piping modifications. Since the existing pumping station and associated structures lie within the 100-foot Buffer to Cox Creek, this project requires a Conditional Approval by the Commission, as found in Chapter 2 of the Critical Area Commission's regulations for State and local government development.

The project is located in northern Anne Arundel County at the end of Harbor Drive in the Stoney Beach neighborhood. The property is designated as an Intensely Developed Area (IDA). The existing site conditions consist of a .030 acre pumping station facility, originally constructed in 1960. The landscape surrounding the pumping station can be categorized as mostly lawn area, with a few existing shrubs and an extensive area of invasive plant cover. The entirety of the existing pumping station is located within the Buffer, with an existing impervious cover of 200 square feet (18%).

The development proposal includes two components; improvements inside the existing wet well and improvements outside of the existing wet well. Those proposed

improvements located inside the existing wet well include replacing existing pumps, replacing the guard rail, float mast and fall protection, and installing aluminum handrails and control panel modifications. These improvements constitute no new disturbance to the site. The improvements proposed outside of the wet well constitute 440 square feet of new disturbance to the Buffer, of which 40 square feet will be permanent and impervious. The remaining 400 square feet of disturbance is temporary and will be returned to grassed cover. The external improvements include installing an emergency bypass vault and connecting a water line to the existing pumping station.

While the site is considered intensely developed, the area of new impervious surface falls below the 250 square foot minimum threshold and is not required to comply with the 10% rule for redevelopment. Other than the Buffer, there are no known habitat protection areas on the site. Mitigation will be required at a 3:1 ratio for the area of disturbance to the Buffer. Therefore, the applicants will provide mitigation equivalent to 1,320 square feet. While Commission staff has not yet received a detailed planting plan, it is anticipated that the applicants will provide native plantings at a 1:1 ratio (440 square feet) and provide removal of the invasive species on site, as well as replanting of the area in native plant cover at a 2:1 ratio (880 square feet). A signed planting agreement will be required as a condition of approval.

Conditional Approval Process

In order to qualify for consideration by the Commission for conditional approval, the proposing agency must show that the project or program has the following characteristics:

The following are the response offered by the applicant:

B. (1) That there exist special features of the site or there are other special circumstances such that the literal enforcement of these regulations would prevent a project or program from being implemented;

The intent of this project is to improve operational efficiency of the pumping station by installing an emergency bypass valve vault which would be used to divert flow from the wet well to the sewage trucks. A public water connection to the pumping station will be used by the operations personnel during cleaning of the wet well. As such, there is no practical manner of constructing any of the planned modifications outside of the critical area.

B. (2) That the project or program otherwise provides substantial public benefits to the Critical Area Program;

The public benefits of this project include improved and efficient conveyance of raw sewage from low laying areas, which are unable to flow via gravity to the wastewater treatment plant for further treatment. This will also reduce the likelihood of failure and future problems with septic waste leaving the site.

B. (3) That the project or program is otherwise in conformance with this subtitle;

Except for the Buffer intrusion, the project conforms in all ways to the Critical Area Program.

The conditional approval request shall, at a minimum, contain the following:

C. (1) A showing that the literal enforcement of the provisions of this subtitle would prevent the conduct of an authorized State of local agency program or project;

Literal enforcement of the provisions of this subtitle will prevent construction of any of the planned modifications. The planned modifications are engineered to be part of the direct sewage flow and cannot be situated remotely from the sewage pumping station and existing piping. There is no other way to provide public water to the pumping station without entering the critical area.

C. (2) A proposed process by which the program or project could be so conducted as to conform, insofar as possible, with the approved local Critical Area program or if the development is to occur on State-owned lands, with the criteria set forth in COMAR 27.02.05;

The disturbance is the minimum necessary for the proposed improvements and will conform, insofar as possible, to the Anne Arundel County Critical Area Program.

C. (3) Measures proposed to mitigate adverse effects of the project or program or an approved local Critical Area program or, if on State-owned lands, on the criteria set forth in COMAR 27.02.05.

Mitigation measures include planting an area in native species and removal of a large amount of invasive species.

The Commission shall approve, deny, or request modifications to the request for conditional approval based on the following factors:

(1) The extent to which the project or program is in compliance with the requirements of the relevant chapters of this subtitle;

(2) The adequacy of any mitigation measures proposed to address the requirements of this subtitle that cannot be met by the project or program; and

(3) The extent to which the project or program, including any mitigation measures, provides substantial public benefits to the overall Critical Area Program.

Staff Recommendation

Staff recommends that this project be approved with the following condition:

1. Prior to the commencement of construction activities, the applicants shall provide a planting plan to Commission staff, and to the Project Subcommittee if necessary, which demonstrates compliance with the 1,320 square feet of mitigation required.

Gallo, Kerrie

From: Thomas Gallagher [PWGALL06@aacounty.org]
Sent: Friday, February 22, 2008 12:16 PM
To: Gallo, Kerrie
Subject: Anne Arundel Co. Harbor Drive Pumping Station Improvements -Project #AA747-06 (resend)

Hi Kerrie,

I'm coordinating the required planting plan for the subject construction project and I need to ask you a few questions. It's been a while (about a year now) since we received conditional approval for the work we need to do, so if you need some background or any additional information, I'll completely understand and be happy to help any way I can.

1. Does the mitigation have to take place at the location where we are working, in the buffer?
2. The copy of a Planting Agreement for State/Local Projects form I received (possibly from Elinor) did not include the backside of the page. Would it be possible for you to send me a copy, front and back? The form I'm talking about is attached to this email. *- there is no backside*
3. On the Planting Agreement form there is an area for someone to sign off on a First Site Visit date and Second Site visit date - who is responsible for conducting the site visits? The Critical Area Staff? Me? *- me w/ AA Staff*
4. Is a narrative or description of the plan sufficient or do you require drawings of the area? *- both*
5. We've had some discussions with the community association responsible for the landscaping around our site, and they have offered to conduct the plantings if we provide the specimen - would this fulfill our mitigation requirements? *- yes as long as in coordination w/ approved*

Thanks for your help - feel free to call me if you have any questions.

Tom Gallagher
Project Manager, PBS&J
Heery International, Inc.
Anne Arundel County Capital Projects
2568A Riva Road, Suite 300
Annapolis, MD 21401
410-571-0092 office
410-571-0746 fax
443-336-2704 mobile
tgallagher@aacounty.org

① Agreement was that removal of invasives (+ replacement w/ native shrub at 1:1 (440 ft), replanting area in native plant cover at 2:1 (880 ft)

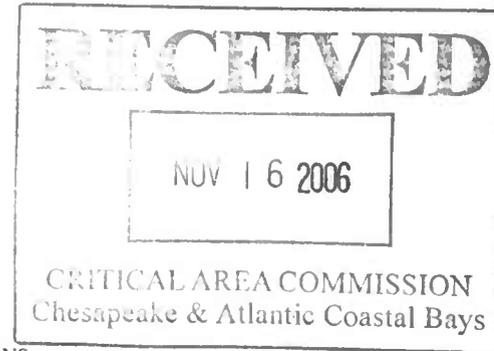
Talked @ 10:30 on 3/12/08
- Tom to send in planting agreement forms



CONDITIONAL APPROVAL REPORT

November 6, 2006

Ms. Lisa A. Hoerger
Natural Resources Planner
Critical Area Commission for the Chesapeake and Atlantic Coastal Bays
1804 West Street, Suite 100
Annapolis, Maryland 21401



**Subject: Chesapeake Bay Critical Area - Conditional Approval Report
Harbor Drive Sewage Pumping Station Improvements**

Dear Ms. Hoerger:

Anne Arundel County Department of Public Works (DPW) proposes improvements to the Harbor Drive Sewage Pumping Station, which is located in 100' Chesapeake Bay Critical Area Buffer categorized as Intensely Developed Area (IDA). The proposed improvements will increase pumping station efficiency and will reduce or eliminate safety hazards. The improvements will be accomplished by replacing existing pumps with same capacity, providing emergency bypass valve vault, extending public water to pump station and replacing existing electrical control panels along with some miscellaneous piping modifications. Since the valve vault and partial water line extension are located within the 100' buffer, the project is submitted for Chesapeake Bay Critical Area Review.

The Harbor Drive Sewage Pumping Station is an existing facility located in Orchard Beach on Harbor Drive in northern Anne Arundel County. The total area of pumping station is 1,323 square feet all located inside critical area. All area is designated as Intensely Developed Area (IDA). The facility was originally constructed in 1960. Due to age of facility, several related upgrades would be necessary to further increase the sewage pumping station reliability and effectiveness. The proposed improvements could be categorized as improvements inside the wet well which will constitute no disturbed area and improvements outside the wet well which will constitute disturbed area. The work inside the wet well includes replacing existing pumps with new pumps, replacing guard rail, float mast, fall protection, installing aluminum handrails and control panel modification. Scope of work outside the wet well includes installing emergency bypass valve vault and providing water to the pumping station. The vault will be located in grass area which will increase the impervious area by approximately 40 square feet. Since the

water line will be buried and will be passing through grass, no change in impervious area or disturbance to natural vegetation is anticipated.

Project site can be summarized in following way:

Description of work:

The project is an improvements to existing Harbor Drive Sewage Pumping Stations for the Department of Public Works, Anne Arundel County. The scope of work includes electrical and mechanical improvements inside the wet well, providing permanent bypass valve vault (approximately 6'W x 6'-6"B x 6'-6"H) and miscellaneous piping leading to valve vault. Scope also includes providing public water to pump station. The total area of pump station is approximately 1,323 square feet. The total disturbed area at pumping station will be 1,165 square feet. *↳ Total LOD for internal + external impacts*

The property is owned by Department of Public Works, Anne Arundel County and projects is categorized as a Capital Improvements project.

Critical Area Buffer - IDA:

Harbor Drive Sewage Pumping Station is in 100' Planning Zone and critical area designation for the site is "Intensely Developed Area".

Slopes of 15% or greater:

Harbor Drive Sewage Pumping Station is situated on a level ground and the proposed work is not on the slopes of 15% or greater.

Impervious Surfaees:

Total lot area for pumping station is 1,323 square feet, out of which approximately 200 square feet is completely impervious. Proposed vault will increase impervious area by approximately 40 square feet. *↳ 240 sq ft or 18%*

Stormwater 10% Rule:

This project is exempt from stormwater management requirements. *↳ 250 sq ft*

Forest:

No forested area exists at this station.

Habitat Protection Areas:

Per letter issued by Lori A. Byrnc, Environmental Review Coordinator, Wildlife & Heritage Services, Maryland Department of Natural Resources dated May 17, 2006 (copy attached), there are no State or Federal records for rare, threatened or endangered species within the boundaries of this project.

- Anadromous Fish: This project does not affect these types of fish.
- Colonial Nesting Water Birds: This project does not affect these birds.

- Waterfowl Staging and Construction Area: This project does not affect these birds.
- Rare, Threatened and Endangered Species: There is no evidence of any of these species on or near the site.
- Tidal Wetlands: The project does not affect wetlands.
- Forest interior dwelling bird habitat: This project does not affect these birds.

B. It is our understanding that in order to qualify for consideration by the Chesapeake Bay Critical Area Commission for conditional approval; Anne Arundel County Department of Public Works must show that project has following characteristics:

(1) That there exist special features of a site or there are other special circumstances such that the literal enforcement of these regulations would prevent a project or program from being implemented;

The intent of this project is to improve operational efficiency of subject pumping station by installing emergency bypass valve vault, which would be used during emergencies to divert flow from wet well to sewage trucks. Also public water connection to the pumping station will be used by the operations personnel during wet well cleaning. As such, there is no practical way to construct any of the planned modifications outside of the critical area.

(2) That the project or program otherwise provides substantial public benefit to the Chesapeake Bay Critical Area Program;

The public benefits of this project include improved and efficient conveyance of raw sewage from low laying areas, which are unable to flow via gravity to wastewater treatment plant for further treatment. This will also reduce the likelihood of failure and future problems with septic waste leaving the site

(3) That the project or program is otherwise in conformance with this subtitle;

Except for the buffer intrusion, the project conforms in all ways to the Critical Area Program.

C. The conditional approval request shall, at a minimum the following;

(1) A showing that the literal enforcement of the provisions of this subtitle would prevent the conduct of an authorized state or local agency program or project;

Literal enforcement of the provisions of this subtitle will prevent construction of any of the planned modifications. The planned modifications are engineered to be part to direct the sewage flow and cannot be situated remotely from the sewage pumping station and existing piping. Also there is no other way to provide public water to the pumping station without entering critical area.

(2) A proposed process by which the program or project could be so conducted as to conform, insofar as possible, with the approved local Critical Area Program or if the development is to occur on State-owned lands, with the critical area set forth in COMAR 27.02.05;

The disturbance is the minimum necessary for the proposed improvements and will conform, insofar as possible to the Anne Arundel County Critical Area Program.

(3) Measures proposed to mitigate adverse effects of the project or program or an approval local Critical Area Program or if on State-owned lands, on the criteria set forth in COMAR 27.02.05.

Mitigation measures include removal of a large amount of invasive species and maintenance of the existing plantings.

Your expedited review is greatly appreciated. Please forward any review comments to my attention. Do not hesitate to contact me or Mayur Sant, Project Engineer at (410) 358-7171 should you have any questions.

Thanks,

Sincerely,

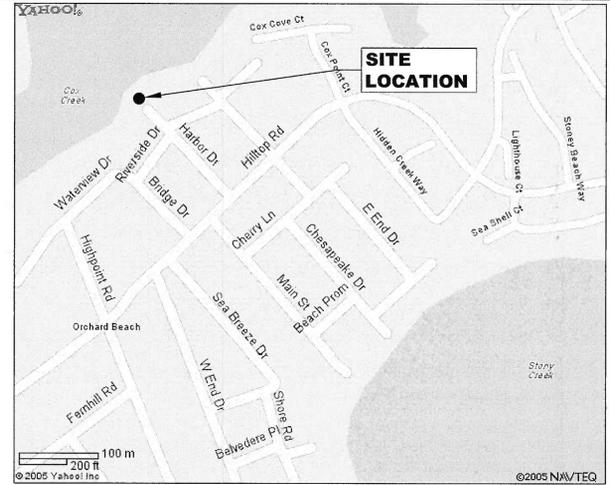
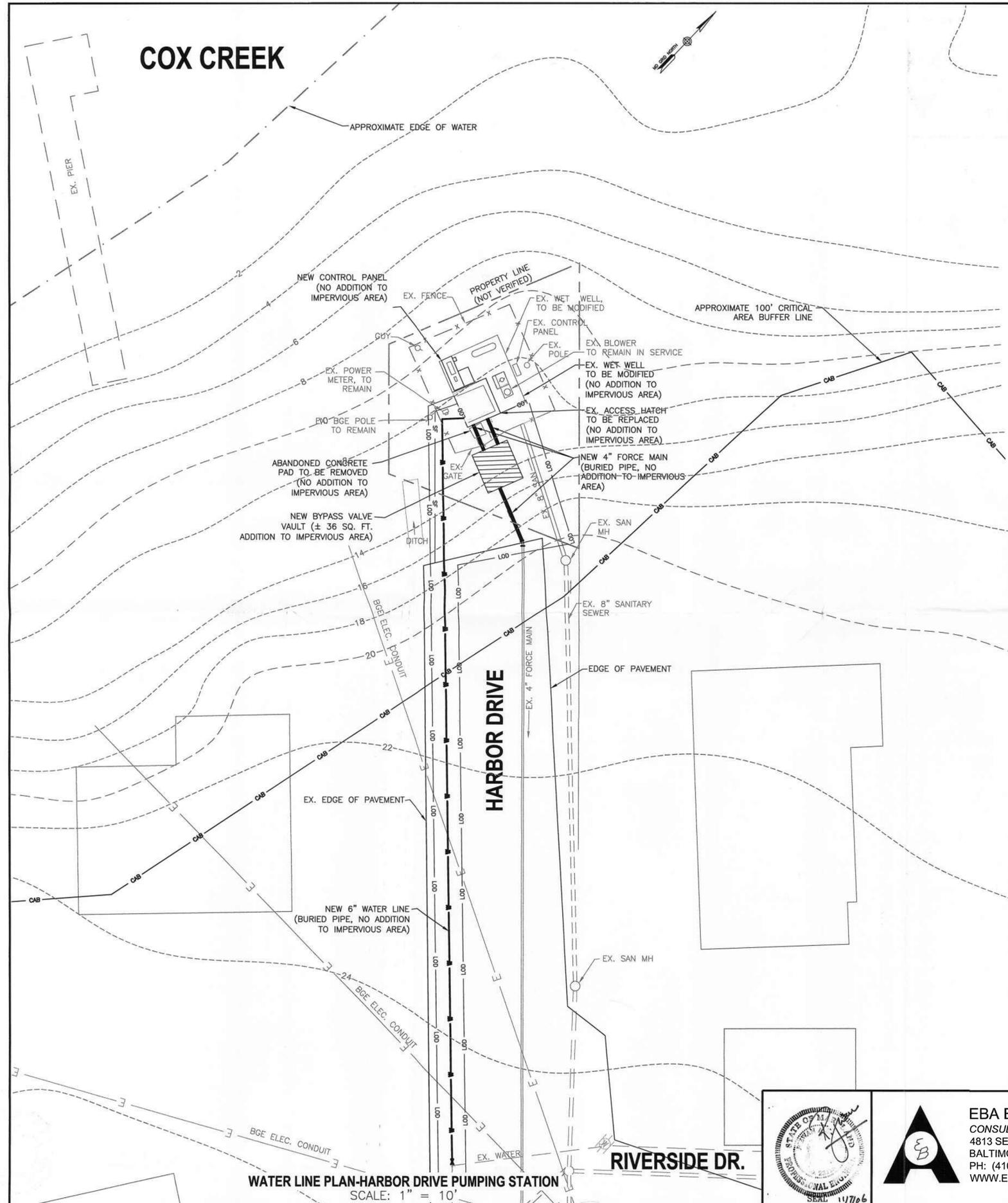


Rizwan Siddiqi, P.E.
Vice President

Encl: Copy of letter issued by Lori A Byrne, Environmental Review Coordinator, Wildlife & Heritage Services, Maryland Department of Natural Resources
Site Plan - Harbor Drive SPS

CC: Thomas Gallagher, Project Manager, Anne Arundel County
File

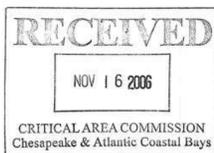
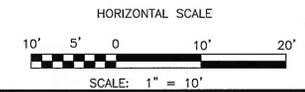
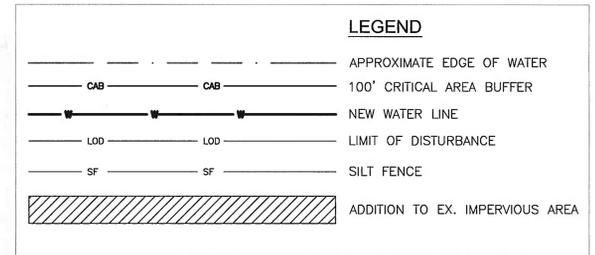
COX CREEK



HARBOR DRIVE PUMPING STATION
VICINITY MAP
SCALE=NTS

GENERAL NOTES:

- EXISTING HARBOR DRIVE SEWAGE PUMP STATION FALL IN 100' CRITICAL AREA BUFFER (IDA)
- GENERAL SCOPE OF WORK AT HARBOR DRIVE SEWAGE PUMPING STATION
 - A) PROVIDE 6' X 6' X 6' CONCRETE BYPASS VAULT WITH HATCH
 - B) PROVIDE WATER CONNECTION FOR WASH DOWN OPERATION
 - C) MECHANICAL & ELECTRICAL MODIFICATIONS INSIDE WET WELL
- TOTAL AREA OF THE PUMP STATION SITE IS 1323 SQ. FT. OUT OF WHICH ±200 SQ. FT. IS EXISTING IMPERVIOUS AREA. DUE TO PROPOSED WORK THERE WILL BE INCREASE IN IMPERVIOUS AREA BY ±40 SQ. FT.
- TOTAL DISTURBED AREA FOR THIS PROJECT IS ± 1165 SQ. FT.
- MITIGATION REQUIREMENTS - MITIGATION MEASURES INCLUDE REMOVAL OF A LARGE AMOUNT OF INVASIVE SPECIES AND MAINTENANCE OF THE EXISTING PLANTINGS.



G01

W:\3035W01_Creek & Harbor_SPS\Critical Area Submission\Critical Area.dwg, Sheet 04, 11/16/2006 12:52:52 PM, mayor, 1050c 36 inch pc3, Arch D - 24 x 36 in. (landscape)

WATER LINE PLAN-HARBOR DRIVE PUMPING STATION
SCALE: 1" = 10'



EBA#3035W01
EBA ENGINEERING, INC.
CONSULTING ENGINEERS
4813 SETON DRIVE
BALTIMORE, MD. 21215
PH: (410) 358-7171 FAX: (410) 358-7213
WWW.EBAENGINEERING.COM

REVISED		APPROVED		DATE		APPROVED		DATE		SCALE: AS SHOWN		BUREAU OF ENGINEERING	
DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	HARBOR DRIVE SPS IMPROVEMENTS	
												CHESAPEAKE BAY	
												CRITICAL AREA COMMISSION	
												SUBMISSION	
												CONTRACT NO. S791855	



Robert L. Ehrlich, Jr., Governor
Michael S. Steele, Lt. Governor
C. Ronald Franks, Secretary

May 17, 2006

M' Mayur Sant
EBA Engineering, Inc.
4813 Seton Drive
Baltimore, MD 21215

RE: Environmental Review for Upgrades to Existing Sewage Pumping Stations at: Sea Breeze Drive, Marley Avenue, 7th Street, Creek Road, and Harbor Drive, Anne Arundel Co., MD.

Dear M' Sant:

The Wildlife and Heritage Service has determined that there are no State or Federal records for rare, threatened or endangered species within the boundaries of the project site as delineated. As a result, we have no specific comments or requirements pertaining to protection measures at this time. This statement should not be interpreted however as meaning that rare, threatened or endangered species are not in fact present. If appropriate habitat is available, certain species could be present without documentation because adequate surveys have not been conducted. It is also important to note that the utilization of state funds, or the need to obtain a state authorized permit may warrant additional evaluations that could lead to protection or survey recommendations by the Wildlife and Heritage Service. If this project falls into one of these categories, please contact us for further coordination.

Thank you for allowing us the opportunity to review this project. If you should have any further questions regarding this information, please contact me at (410) 260-8573.

Sincerely,

Lori A. Byrne,
Environmental Review Coordinator
Wildlife and Heritage Service
MD Dept. of Natural Resources

ER #2006.1027.aa